Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (previously presented) A method for finding disconnection of a conductive wire formed on a vehicular plate glass, the method comprising the steps of:
 - (a) applying a voltage to the conductive wire; and
- (b) imaging thermal radiation from a surface of the conductive wire by an infrared image sensor, while the step (a) is conducted, thereby producing a temperature distribution image for determining whether the disconnection of the conductive wire exists.
- 2. (original) A method according to claim 1, wherein the temperature distribution image is subjected to a binarization by an image processor.
- 3. (original) A method according to claim 1, wherein the temperature distribution image is compared with a data representing a pattern of the conductive wire.
- 4. (original) A method according to claim 3, wherein the data is a first image data obtained by drafting the pattern of the conductive wire.
- 5. (original) A method according to claim 3, wherein the data is a second image data obtained, prior to the step (a), by imaging thermal radiation from the surface of the conductive wire by the infrared image sensor.
- 6. (original) A method according to claim 3, wherein the comparison is conducted by superimposing the temperature distribution image on the data.

- 7. (original) A method according to claim 3, wherein the comparison is conducted by an image data subtraction between the temperature distribution image and the data.
- 8. (previously presented) An apparatus for finding disconnection of a conductive wire formed on a vehicular plate glass, the apparatus comprising:

a power source for applying a voltage to the conductive wire; and an infrared image sensor for imaging thermal radiation from a surface of the conductive wire, thereby producing a temperature distribution image which indicates whether the disconnection in the conductive wire exists.

- 9. (original) An apparatus according to claim 8, wherein the infrared image sensor is an infrared camera.
- 10. (previously presented) A method according to claim 1, wherein the conductive wire serves as a heating wire for providing antifogging property or as an antenna wire.
- 11. (previously presented) An apparatus according to claim 8, wherein the conductive wire serves as a heating wire for providing antifogging property or as an antenna wire.
- 12. (previously presented) A method for finding disconnection of a plurality of conductive wires formed on a vehicular plate glass, the method comprising the steps of:
 - (a) applying a voltage to the conductive wires; and
- (b) imaging thermal radiation from a surface of the conductive wires by an infrared image sensor, while the step (a) is conducted, thereby producing a temperature distribution image for determining whether the disconnection of the conductive wire exists.

- 13. (previously presented) A method according to claim 12, wherein the temperature distribution image is subjected to a binarization by an image processor.
- 14. (previously presented) A method according to claim 12, wherein the temperature distribution image is compared with a data representing a pattern of the conductive wires.
- 15. (previously presented) A method according to claim 14, wherein the data is a first image data obtained by drafting the pattern of the conductive wire.
- 16. (previously presented) A method according to claim 14, wherein the data is a second image data obtained, prior to the step (a), by imaging thermal radiation from the surface of the conductive wires by the infrared image sensor.
- 17. (previously presented) A method according to claim 14, wherein the comparison is conducted by superimposing the temperature distribution image on the data.
- 18. (previously presented) A method according to claim 14, wherein the comparison is conducted by an image data subtraction between the temperature distribution image and the data.
- 19. (previously presented) A method according to claim 12, wherein the conductive wires serve as heating wires for providing antifogging property or as antenna wires.
- 20. (previously presented) An apparatus for finding disconnection of conductive wires formed on a vehicular plate glass the apparatus comprising:

a power source for applying a voltage to the conductive wires; and an infrared image sensor for imaging thermal radiation from a surface of the conductive wires, thereby producing a temperature distribution image which indicates whether the disconnection in the conductive wire exists.

- 21. (previously presented) An apparatus according to claim 20, wherein the infrared image sensor is an infrared camera.
- 22. (previously presented) An apparatus according to claim 20, wherein the conductive wires serve as heating wires for providing antifogging property or as antenna wires.
- 23. (currently amended) A method for finding disconnection of a plurality of conductive wires that are formed on a vehicular plate glass and are parallel with each other, the method comprising the steps of:
 - (a) applying a voltage to the conductive wires;
- (b) imaging thermal radiation from a surface of the conductive wires by an infrared image sensor, while the step (a) is conducted, thereby producing a temperature distribution image;
- (c) selecting a rectangular an inspection portion from the temperature distribution image, the rectangular inspection portion having a size to cover only a portion of each conductive wire;
- (d) subjecting only the rectangular inspection portion of the temperature distribution image to a binarization by an image processor, thereby producing a binarized temperature distribution image of only the rectangular inspection portion; and
- (e) comparing the binarized temperature distribution image with a data representing a pattern of the conductive wires to determine whether a disconnection exists anywhere in the entirety of the conductive wires, based on the binarized temperature distribution image of only the inspection portion.
- 24. (previously presented) A method according to claim 23, wherein the data of the step (e) is a first image data obtained by drafting the pattern of the conductive wire.
- 25. (previously presented) A method according to claim 23, wherein the data of the step (e) is a second image data obtained, prior to the step (a), by imaging

thermal radiation from the surface of the conductive wires by the infrared image sensor.

- 26. (previously presented) A method according to claim 23, wherein the comparison of the step (e) is conducted by superimposing the binarized temperature distribution image on the data.
- 27. (previously presented) A method according to claim 23, wherein the comparison of the step (e) is conducted by an image data subtraction between the binarized temperature distribution image and the data.
- 28. (previously presented) A method according to claim 23, wherein the conductive wires serve as heating wires for providing an antifogging property or as antenna wires.